

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Express Mail No EL627425739US

In re Application of PUUPPONEN et al

FILING DATE Herewith

ART UNIT:

TITLE: SWITCHING AND CONNECTING ARRANGEMENT FOR COUPLING  
EXTERNAL AND INTERNAL ANTENNAS FOR EXAMPLE WITH AN  
EXPANSION CARD

ATTORNEY DOCKET NO 460-010402-US(PAR)

The Commissioner of Patents and Trademarks

Washington, D.C. 20231

**PRELIMINARY AMENDMENT**

Dear Sir

Please amend the above-identified, enclosed patent application as follows.

**IN THE CLAIMS**

Please amend Claims 3, 4, 5, 6 and 10 as rewritten below:

3 The arrangement according to claim 1, **characterized** in that it also comprises a switch (321) arranged for coupling said diversity switch electrically to said circuit, wherein the switch (321) comprises at least a tenth interface (323) arranged for coupling the receiving part (WLAN RX) of said circuit to the switch, at least an eleventh interface (322) arranged for coupling the transmission part (WLAN TX) of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part (WLAN RX) for transferring a signal received with the selected antenna, or to the transmission part (WLAN TX) for transmitting a signal by means of the selected antenna

4. The arrangement according to claim 1, **characterized** in that the receiving part (WLAN RX) comprises a separate bandpass filter (FL1) for processing a received signal, and that the transmission part (WLAN TX) comprises a separate low pass filter (FL2) for processing a signal to be transmitted

5. The arrangement according to claim 1, **characterized** in that said circuit board (300) is fitted in an expansion card (C) comprising said transceiver and also an expansion part (2) fitted at the end of the expansion card, wherein said circuit board at least partly and said internal antennas are arranged inside said expansion part.

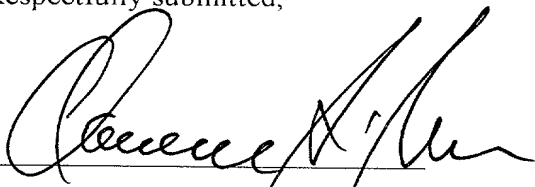
6. The arrangement according to claim 1, **characterized** in that the first internal antenna (302) and the second internal antenna (303) are arranged on said circuit board (300).

10. The expansion card according to claim 8, **characterized** in that said arrangement also comprises a switch (321) arranged for coupling said diversity switch electrically to said circuit, wherein the switch (321) comprises at least a tenth interface (323) arranged for coupling the receiving part (WLAN RX) of said circuit to the switch, at least an eleventh interface (322) arranged for coupling the transmission part (WLAN TX) of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part (WLAN RX) for transferring a signal received with the selected antenna, or to the transmission part (WLAN TX) for transmitting a signal by means of the selected antenna

REMARKS

In accordance with 37 C.F.R. §1.121 (as amended on 11/7/2000) the rewritten claim(s) above are shown on separate page(s) marked up to show all the changes relative to the previous version of that section

Respectfully submitted,



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Application entitled SWITCHING AND CONNECTING ARRANGEMENT FOR  
COUPLING EXTERNAL AND INTERNAL ANTENNAS FOR EXAMPLE WITH  
AN EXPANSION CARD

MARKED UP CLAIM(S)

3. The arrangement according to claim 1-~~or~~2, **characterized** in that it also comprises a switch (321) arranged for coupling said diversity switch electrically to said circuit, wherein the switch (321) comprises at least a tenth interface (323) arranged for coupling the receiving part (WLAN RX) of said circuit to the switch, at least an eleventh interface (322) arranged for coupling the transmission part (WLAN TX) of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part (WLAN RX) for transferring a signal received with the selected antenna, or to the transmission part (WLAN TX) for transmitting a signal by means of the selected antenna

4 The arrangement according to ~~any of the claims 1 to 3~~, **characterized** in that the receiving part (WLAN RX) comprises a separate bandpass filter (FL1) for processing a received signal, and that the transmission part (WLAN TX) comprises a separate low pass filter (FL2) for processing a signal to be transmitted.

5 The arrangement according to ~~any of the claims 1 to 4~~, **characterized** in that said circuit board (300) is fitted in an expansion card (C) comprising said transceiver and also an expansion part (2) fitted at the end of the expansion card, wherein said circuit board at least partly and said internal antennas are arranged inside said expansion part

6 The arrangement according to ~~any of the claims 1 to 5~~, **characterized** in that the first internal antenna (302) and the second internal antenna (303) are arranged on said circuit board (300)

10 The expansion card according to claim 8-~~or~~-9, **characterized** in that said arrangement also comprises a switch (321) arranged for coupling said diversity switch electrically to said circuit, wherein the switch (321) comprises at least a tenth interface (323) arranged for coupling the receiving part (WLAN RX) of said circuit to the switch, at least an eleventh interface (322) arranged for coupling the transmission part (WLAN TX) of said circuit to the switch, and wherein said switch is arranged to connect said diversity switch to the receiving part (WLAN RX) for transferring a signal received with the selected antenna, or to the transmission part (WLAN TX) for transmitting a signal by means of the selected antenna